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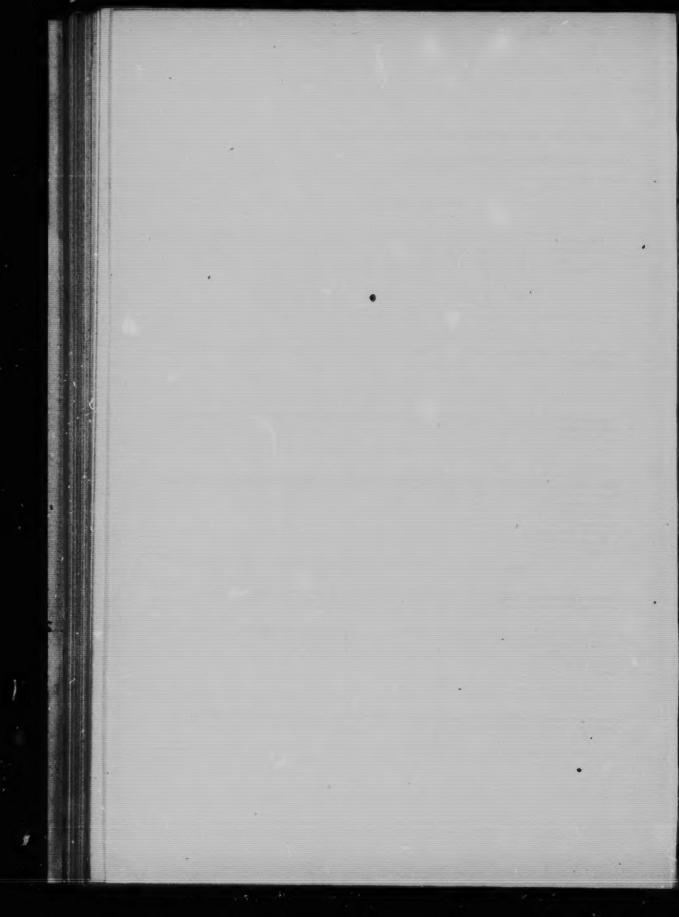
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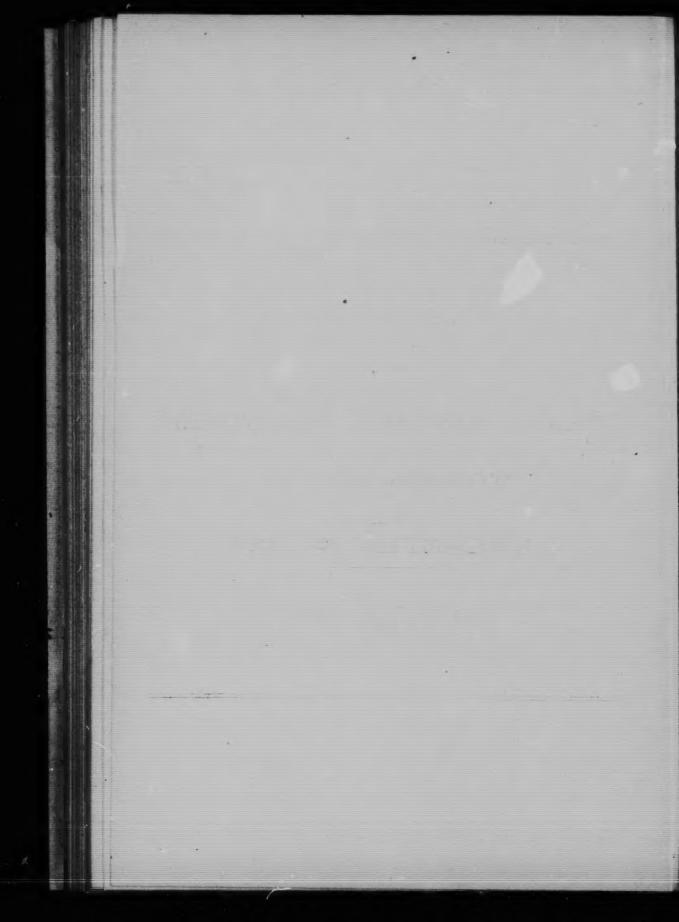
OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No 133

BUTTER, 1907



LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

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BULLETIN No. 133

BUTTER, 1907

OTTAWA, April 16, 1907.

W. J. GERALD, Esq., Deputy Minister of Inland Revenue.

Sir,-On the 30th January last I had the honour of reporting to you the results of analysing 101 samples of better collected in 1906 (Bulletin No. 131) and of pointing out that two of these consisted almost exclusively of foreign fat and that apparently attempts were being made either to manufacture or to import into Canada oleomargarine, in contravention of the provisions of the Butter Act, 1903. On account of the small number of these adulterated samples compared with those found genuine (about 1 in 50) and the uselessness of expending analytical work upon the unadulterated samples the auggestion was made by Mr. A. McGill, Assistant Analyst to the Chief Analyst, that a larger number of butter samples should be collected, but that the fats from these should first be tested as to their refractive index, and only those butters subjected to further examination which gave unsatisfactory results in this particular. This plan appeared to me to have great advantages and after it had obtained your approval, orders were issue. or being 1,000. As the examination progressed however it was found nun. ec cated samples came exclusively from the Province of Quebec, and therefore the full number first required had been obtained. The number collected and subjected to examination under the Refractometer, and the results of this examination are shown in the following statement :-

Name of District.	Genuine.	Doubtful.	Containing Foreign fat.	Total Number collected.
Nova Scotia Prince Edward Island New Brunswick Quebec St. Hyacinthe Montreal Ottawa Kingston Toronto London Manitoba British Columbia	106 150 150 198 49 46 100 50	0 0 0 0 0 0 0 1 1 4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 50 50 113 150 200 50 50 100 50 7
1	868	8	8	881

The samples thus found to be adulterated with foreign fat from more testing by the Butyro refractometer were the following:--

Date of Collection.		Name and Address of Vendor.		Name of Furnisher as given by Vendor.	Reading of Butyre-refractometer at 25° C, by A. McGill and Miss E. Davidson.	
190	7.					
Jan.	15	20008	Elz. Couture, 124 Caron St., Que- bec.	Emond & Coté, Quebec	58·3°-58·6°.	
10	17	26105	L. Letourneau, 33 Smith St., Que- bec.	Oct. Jacques & Cie, Quebec.	57 · 5° - 57 · 6°.	
**	25	26151	F. Delisle, 131 Hermine St., Que-	Emond & Coté, Quebec	57 · 5°.	
ii	25	26152	Dame N. L. Pouliot, 96 Kirouack	H H	07.8".	
**	29	26157	St., Quebec. J. E. Julien, 1168 St. Valier St.,	Not known	57.0%	
11	30	26166	Quebec. F. Hebert, 191 St. Germain St.,	Emond & Coté, Quebec	57·5°.	
	9	31732	Quebec. H. Delorme, 253 Gain St., Mon-	Not known	57 - 8° - 58 - 0°.	
	15	31866	treal. G. Bertrand, 1742 St. Catherine East, Montreal.	W. Champagne, Montreal	87:30.	

These eight samples were then submitted to the District analyst, Dr. J. T. Donald, Montreal, for further examination along with two of the doubtful ones, namely No. 26176 the refractive index of which was 54° and No. 31721 whose index of 48°-49° had been found exceptionally low. The readings in the case of the genuine samples at 25°C. were mostly about 52°, ranging from 49.5° to 53.3°. The analyses by Dr. Donald resulted as follows:—

No of Sample.	Vendor.	Moisture.	Fat.	Sait	Curd.	Reichert- Meisel Value.	Specific gravity of fat at 100°C.	Opinion.
		р. с.	р. с.	р. с.	р. с.	No.		
26098	E. Couture	6.06	90.03	1.92	1.41	1.6	903-8	Adulterated, containing little if any butter fet.
	L. Letourneau	8.32	85 81	3.44	1.60	1.4	895 6	" " "
	F. Deliale	5.67	87:19	4.75	1.55	1.3	899.2	
	Dame Pouliot	7.11	88 94	2.61	0 53	1.5	898 4	10 10
	J. E. Julien	5.09	89.38	2.64	1.64	1.2	914.0	0 0
	F. Hebert	5.83	89.00	3.08	1 19	1.2	909.0	
	H. Lapointe	14.19	73.09	10.77	0.99	25.5	904 6	Genuine but High in salt.
	L. Allaire	10.22	86 15	2.21	1.08	27.6	907.7	Genuine.
31732	H. Delorme	2.80	90.05	2.22	1.39	3.0	800.0	Adulterated, containing little if any butter fat.
31866	B. Bertrand	4.90	92.89	1.96	0.24	2.5	896.9	most it any outset las.

I have the honour to be, sir, Your obedient servant,

> THOMAS MACFARLANE, Chief Analyst.



